Ø BEAT

JUNE 1985

COLORADO SPRINGS, COLORADO

FIFTY CENTS AN ISSUE / $4 PER YEAR

Frank Drake - KL7IPV
4964 Harvest Rd.,
Colorado Springs, CO. 80917

FIRST CLASS MAIL

Ø BEAT

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The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at Giuseppe's Depot Restaurant at 10 S. Sierra Madre at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Frank Drake KL7IPV, 4964 Harvest Rd. Colorado Springs, CO 80917 597-2406

RAMBLINGS

WORLDRADIO NEWS - JUNE 1985

WATCH YOUR LANGUAGE!

Remember not to use Amateur Radio "slanguage" or words that mean nothing to the layman but so much to amateurs.

Case in point: Did you hear the one about the ham that called a lady and said, "I have a message from MARS for you." Her reply, before she hung up on him was, "What are you, some kind of WEIRDO?" (MARS is the acronym for "Military Affiliate Radio System").

Keep it simple. "My name is Joe Smith. I live in Smithtown. I am an amateur, commonly called a ham, and I have a routine message fro you. Can I read it to you?" (Questions and explanations may follow the message delivery if they have not had past experience with such things. But, again, do not get technical - keep it simple!)

Triple States RAC, Adena, OH

FCC amateur radio operator and station licenses totals as of 28 February were: Extra Class, 36,303; Advanced, 97,518; General, 116,874; Technician, 80,658; Novice, 79,497; Total operators, 410,850; Club stations, 2302; military recreation, 175; Secondary stations, 0; RACES, 399; Total stations, 413,726.

KEEP BATTERIES FROM CHILDREN!!

Wafer-thin batteries used in calculators, watches, and cameras spell danger for young children.

Because those batteries are bright and shiny, they are easily discovered by children and can be fatal if they are swallowed. Even "dead" batteries can be harmful because of their chemical composition.

In a recent incident, a young boy's parent's were unaware of the danger when their child swallowed onne of these batteries. Several days later they sought medical help.

Unfortunately, it was too late. The alkaline chemicals had destroyed their son's esophagus.

Four other children inb Dallas recieved emergency surgery after swallowing the same type of batteries. Two other toddlers died because their parents were not aware of battery ingestion.

To protect your children from these potential killers, treat these batteries as you would any other poison - out of reach of children.

Thanks to Joe Profitt of the Wright/Patterson Base Safety Office and to R.F.Carrier.

Lake Erie ARAC Cleveland, OH

MORE "RAMBLINGS" FROM AROUND THE WORLD
From the Anchorage Amateur Radio Club:
INDIA'S NEW PRIME MINISTER IS A HAM

The world mourns the tragic and senseless assassination of India's Indira Ghandi. It is interesting to note that her son, Rajiv and daughter-in-law, Sonia are both licensed amateur radio operators. (Call book lists their address as: 1 Safdarjung Rd., New Delhi.)

Rajiv Ghandi, who succeeds his mother as the new Indian head-of-state is VU2RG (his initials) and his wife, VU2ON.

While we already have an amateur radio operator head-of-state (King Hussein is JY1 in Jordan), the Ghandi's are the first ham husband and wife head-of-state.

Oregon Tualatin Valley ARC

****

Also in the Anchorage ARC newsletter May, 1985 issue, is the PPRAA article written by Ken Wyatt - WA6TTY on "Simple Attenuator". I guess Ken is now getting to be world reknown. (Ed.)

****

CONGRATULATIONS: The following hams have upgraded and/or have new callsigns:
Hugh Metcalf - General - N0GEC
Ed Danforth - General - N0GAG
Don DePierre - General - N0GDD
Don Noffsinger - General - KA0QBA (will be changed)
Ken Raub - Technician - KA9QJR
John Poynor - General - KA0TRY

From Worldradio News - May 1985

HALLICRAFTERS NOTE

Anybody have a piece of Hallicrafters equipment that they are willing to let some one work on? If so, Albert Bojanower, WA6WDY, is the man to contact. His adr. is: 7519 4th Pl., Downey, CA. 90241.

****

A NOTE ON TVI -

Alex Calabrese, WA2ADS

I had a terrible TVI problem when I operated on 2 meters on any mode. I interfered with all the channels on our local Cablentertainment cable TV system. Even though I feel strongly about the cable industry's responsibility in providing interference-free TV, I must say the local CATV technicians were very cooperative in resolving the problem.

To keep a long story short, the tech suggested disconnecting the cable converter box and connecting the cable directly to my TV. I then operated my H-T and what we found wass terrible TVI on channel 2, but none on channel 3 or any higher VHF channel.

The tech said my converter box was a "channel 2" box, and this was why I had why I had TVI on all channels. He suggested I call the cable company and trade my "channel 2" for a "channel 3" box. This I did, and guess what - no TVI! A fairly simple solution to an annoying problem.

Now if we could only get the CATV industry to stop using carrier frequencies that are on the ham bands (e.g. ESPN locally is on 147MHz).

-Shore Points ARC, Absecon, NJ.

****

****

HIDDEN WORDS PUZZLE # 5

THE WORDS LISTED BELOW ARE HIDDEN IN THE PUZZLE.
CAN YOU FIND THEM?

PUBLIC
REVCO
SERVICE
SKYWARN
SPRINGTIME
TORNADO
TUESDAY
VACATION
FLOWERS
GARDENING
HOFFBRAU
LEARA
MARATHON
MEMORIALDAY
MOTHERSDAY
PICNIC

Y	K	X	E	C	S	I	I	O	L	W	I	I	I	U	H	E	W	U	D
U	Y	N	O	C	B	G	O	I	N	Y	R	I	N	O	O	B	O	V	A
N	A	T	I	F	O	J	Q	S	C	S	U	N	F	E	O	O	F	P	E
W	D	S	S	K	Y	W	A	R	N	U	O	F	B	Q	O	O	I	E	O
O	S	E	S	K	Z	T	A	O	E	I	B	E	J	A	U	C	B	T	D
E	R	L	S	V	M	I	S	C	T	R	P	M	S	P	N	K	U	D	E
R	E	A	O	K	M	R	I	A	A	O	U	E	E	I	A	I	E	I	H
B	H	I	K	G	E	V	C	U	U	D	B	M	C	A	P	Z	Y	A	I
G	T	T	P	W	R	A	W	O	E	X	L	O	D	I	A	A	A	A	P
E	O	N	O	E	V	X	K	V	E	Z	I	R	E	N	R	F	L	U	I
Y	M	L	S	A	I	M	X	Q	H	Q	C	I	E	O	A	O	L	A	M
O	F	D	G	A	R	D	E	N	I	N	G	A	O	H	E	D	J	Z	I
T	E	E	E	C	M	B	Q	A	E	R	J	L	E	T	L	A	D	V	E
M	E	E	P	I	H	U	S	B	I	A	T	D	D	A	O	N	E	E	Z
J	O	E	T	U	E	S	D	A	Y	D	E	A	G	R	G	R	P	E	M
F	V	V	E	X	B	A	T	W	B	A	E	Y	U	A	E	O	L	E	U
I	O	A	S	O	R	E	V	C	O	M	A	I	O	M	F	T	V	L	W
O	N	A	M	E	I	S	D	I	I	E	M	I	T	G	N	I	R	P	S
H	A	I	M	E	N	A	A	E	X	C	U	P	V	S	K	W	E	J	B
T	V	N	O	O	U	A	P	D	U	K	V	A	V	E	E	L	E	D	G

SUBMITTED BY K&YUW-'JERRY' - GOOD LUCK ON PUZZLE # 5

****

GENERAL MEETING GENERAL MEETING

The next regularly scheduled meeting of the Pikes Peak Amateur Radio Association will be on June 12th, at 7:30 PM at Biuseppe's Depot at #10 South Sierra St. The program will be given by Oak Stockton, K0ROL, who will show the video tapes he has constructed from past events and programs about amateur radio. Bring a guest and enjoy an evening with your ham friends. After the meeting, if enough people are interested, problems associated with radios and antennas will be disussed. This will be tried in order to answer questions for new and old hams who cannot seem to resolve those "small" problems that drive us nuts! See you there.

****

The new Advanced Class amateur operator license examination questions, element 4A, were published in the March 1985 PR Bulletin 1035C and released by the FCC in March.

****

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NORTH AMERICAN TELECONFERENCE RADIO NETWORK

*** FOR IMEDIATE RELEASE ***

FRIDAY - JUNE 14TH, 1985 - 0100 ZULU (15TH)

WITH THE DECLINING SUNSPOT CYCLE AND THE WORST IS YET TO COME, YOU WILL NOT WANT TO MISS THE NEXT NORTH AMERICAN TELECONFERENCE RADIO NETWORK ON JUNE 14TH. NEW AND EXCITING DEVELOPMENTS IN THE AMATEUR RADIO SPACE PROGRAM WILL BE REVIEWED. BASIC INFORMATION ON HOW YOU CAN GET STARTED IN SATELLITE COMMUNICATIONS WILL BE PROVIDED.

SOME OF THE TOPICS TO BE COVERED INCLUDE:

WHAT ARE SATELLITES?
HOW CAN THEY BE USED TO QSO?
HOW CAN YOU GET STARTED?
HOW DO THE AMATEUR SATELLITES GET BUILT AND LAUNCHED?
WHERE CAN YOU GO FOR HELP IN GETTING STARTED?
WHAT KIND OF ACTIVITIES ARE PLANNED FOR THE FUTURE IN THE AMATEUR SPACE PROGRAM?

THESE, AND MANY OTHER QUESTIONS YOU MAY HAVE, WILL BE ADDRESSED IN THE TELECONFERENCE. MANY OPPORTUNITES FOR QUESTIONS AND ANSWERS WILL BE PROVIDED. NO QUESTIONS WILL BE CONSIDERED TOO BASIC, SO IF YOU HAVE BEEN TRYING TO GET STARTED IN THIS AREA BECAUSE YOU'RE FRUSTRATED WITH PRESENT HF BAND CONDITIONS, NOW'S YOUR CHANCE TO GET SOME HELP. AMSAT, THE RADIO AMATEUR SATELLITE CORP., WILL HAVE SOME OF ITS TOP VOLUNTEERS AVAILABLE ON THE TELECONFERENCE:

JOHN BROWNING, W6SP
VERN "RIP" RIPORTELLA, WA2LQQ
TOM CLARK, W3IWI
JOHN CHAMPA, K8OCL
BILL TYNAN, W3XO
HAROLD PRICE, NK6K
JAN KING, W3GEY

DON'T MISS THIS OPPORTUNITY TO LEARN MORE ABOUT THE FANTASTIC ACTIVITIES IN THE WORKS IN THE AMATEUR SPACE PROGRAM.

UNDER THE DIRECTION OF NET MANAGER WA0IVW - TIM LOEWENSTEIN, THE NET WILL BEGIN AT 8:00 P.M. NEBRASKA TIME (0100 ZULU - 15TH) ON JUNE 14TH, 1985. OVER 235 AMATEUR REPEATERS THROUGHOUT THE NORTH AMERICAN CONTINENT WILL PARTICIPATE. SHOULD YOU HAVE QUESTIONS OR WISH INFORMATION ABOUT LINKING YOUR REPEATER TO THE N.T.R.N. PLEASE SEND S.A.S.E. TO:

NORTH AMERICAN TELECONFERENCE RADIO NETWORK
C/O TIMOTHY LOEWENSTEIN, WA0IVW
BOX 1231
KEARNEY, NE 68847-1231

LOCAL REPEATER FREQUENCY IS 146.37/97

RAMBLINGS

FROM AROUND THE WORLD OF AMATEUR RADIO

"THE VIEW FROM THE ROCKIES"
by George Hinds, N8CIX

I haven't changed just because I moved to the land of rarified air: the Rockies of Colorado -- I still can equal my Denver-area grandson in my fondness for peanut butter and jelly sandwiches; I still go down to the railroad tracks to watch the trains go by and to give them a highball signal; and I always look to the skies with a pilot's eye when a Beechcraft "Bonanza" soars by on silver wings in the sunlight.

But if I haven't changed, the land about me is changing, for now is the season of change here in the high mountains - a change that is sometimes severe as winter retreats and spring advances. Late March and early April is the time when winter and spring do battle out here - and, fortunately, spring is to be the winner.

No matter that the snow that began before breakfast yesterday is this morning up to a depth of 15 inches - the sun and warm wind of the morrow will vanquish it in liquid form to replenish reservoirs feeding Colorado Springs and Denver. And the high meadows and parks in these mountains will soon be afire with wildflowers that seem to spring forth from the barren and rocky soil.

In conversations with otner recent immigrants to this land of contrasts - high peaks surrounding sweeping alpine parks, high-rise cities just minutes from ghost towns, and cowboys in jeans drinking coffee with business-suited bankers - I am left with the impression that the compulsion drawing so many thousands to the Colorado Rockies is that sometimes difficult-to-describe value: "The Quality of Life."

I, for one, can understand what is calling these folks, for many years ago I fell victim to the spell. And so here we are, Thelma and I, with me assuming the position of "far West" correspondent to the LEARA NEWSLETTER. So, let's get on with it...but let me say that we miss all of you whose company and friendship we enjoyed during our years of more active LEARA membership.

The most impressive fact about repeater operation in the West is the distance they (and you) can reach out - often 150 miles - and sometimes you will be talking to stations over 200 miles distant.

From the repeater viewpoint, you must realize they are often located at very nigh elevations - 10,000' sometimes and one, the 37/97 Pike's Peak repeater that I usually monitor, is at 14,110' atop the Peak. Stations often check in from western Kansas and Nebraska, or New Mexico or Wyoming.

Likewise, simplex range can be extremely good when two stations are at high points - and conversely, if one or both dip into a valley, the range is strictly line-of-sight (and there is almost no sight!)

So, if you do come out to the Rocky Mountain West, be prepared to work stations with your walkie-talkie at great distances; with a 25 watt mobile, you'll really be amazed.

Another common occurence here is the widespread use of simplex around cities such as Denver and Colorado Springs - the range is favorable and so you are apt to find a contact on .52 at almost any time, even with both stations being mobile.

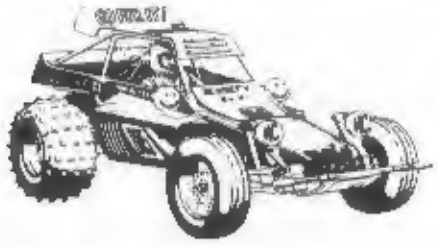
There is activity on 220 and 440 FM, with repeaters in both cities; Denver is soon to nave a 6M repeater, and 2M SSB is quite popular, even with mobiles.

Well, there's more to write about, but that will have to wait for future columns and future issues - in the meantime, if you care to write (or call), our mail address is P. O. Box 1434, Colorado Springs CO 80901; tel: 303-687-2610. Residence is 570-C Manor Ct., Woodland Park CO 80863, 18 miles nw of C Springs on US 24. In the meantime, we hope to be at Dayton, too.

73, N8CIX

"UNUSUAL MOMENTS - REVISITED" continued our equipment from an agency that will accept "returns" on Sundays, and my neighbors no longer have to hold their noses! I held the winning hand this time - I had a " FULL HOUSE "! KØROL

****



HILL CLIMB - JULY 13th & 14th.

Doc, WØMCT, is now the sole chairman working to put the program together. He really needs your help. There are many things that need to be done and he can NOT do it alone. Please call him and offer your services. He can be reached at 596-4216. There are upcoming practice sessions for training of those amateurs who will be part of the action. They are:
June 15th, (Saturday) 2PM
June 17th, 19th, 25th, & 27th at 7PM.
Each session will take about 2 hours and will be held at the training area on E. Bijou just west of Academy Blvd. This IS required before you can be allowed to participate in the hill climb. Please call Doc in time for him to notify the race officials in order to make out the necessary credentials, otherwise you will will pay to get on the hill for the race. This is a serious event and will provide much needed publicity for amateur radio. Please call Doc and become part of this very important function. It is not a club function, per se, but open to ALL hams! CALL CALL CALL CALL CALL CALL CALL CALL

****

If it's CW, it's communications.

832-1111 ALL MAJOR BRANDS SALES·SERVICE 832-1111

8-5:30 Mon.-Fri. 8:30-1 Sat.

KL7IPV EDITORIAL

I try tu find az menny misteaks az i can wen i am duing the newsleter each munth, butt ocazionully wun or tue pas buy mie wachfull aye. I hav never clamed to bee a liturarie genus or a wiz at thee typewryter. (althoughe I can tipe, with az menny three fingurs at wun tyme. If i make a misteak pleeze fourgiv me, four I am only a human bean. An tu alll them who critics me and the tipos butt dont giv me articul for thee newsleter, I may pertend to lissen to u butt yor coments dont mean much to mee.

Cinceerlee, ur editore

****

CONGRATULATIONS !!!

THE FOLLOWING HAMS HAVE UPGRADED & HAVE NEW CALLSIGNS:

Hugh Metcalf - NØGEC
Ed Danforth - NØGAG
Don DePierre - NØGDD

THIS SPACE RESERVED FOR YOU!!!

****

It seems that we amateurs are getting a little long in the tooth. Amateur growth in terms of number is stagnant. ARRL has recognized this trend and has initiated a program to increase the number of amateurs and and also the ARRL membership.

The average age of amateurs is now in the 40's which may reflect the rapid growth of the 1950's. This may be fine for the QCWA, but is cause for concern for the amateur in general.

Why are we not getting the young people? Perhaps there is no challenge. After all, there is not too much "homebrewing". It is no longer a big thrill to work Australia or Japan. Traffic handling has lost a lot of appeal. We have not sold the appeal of public service. There have been some suggestions of relaxing requirements or opening up VHF to novice phone.

We have to do something to bring in the younger people or we will be fading away by attrition and/or tired blood.

ANY SUGGESTIONS??

from the "Groundwave" St. Paul

****

The FCC has dismissed a petition to incorporate the ARRL 2-meter band plan in the Amateur Radio Service rules. It indicated the beleif that voluntary plans are preferable to rigid regulations and that operation in nonconformity was not harmful enough to require Commission action.

COMPUTER CORNER

FROM THE DESK OF YE OLDE EDITOR

I want to take this time to thank Walker Electronics for the discounted sale of the Kenwood TH21/A handheld. I had told Dave that I was going to show the radio to all of you at the meeting to see what the response would be for a drawing to include the radio. It was to be included as a door prize. Well, I shoulda known better. First, I ran out of tickets to sell. Then I sold as many as I could muster and covered the price of the radio. I told Dave that I wanted to pay for the radio that night and where was the paperwork? Well, he didn't bring the paperwork because I didn't think that I would sell all the tickets that I did. The real "kicker" was the fact that Jim, N0FPP, who had two radios riding on his belt; won the radio. Now, I think that Jim is a real fine fellow, but come on - do you need THREE radios?? You should have seen him sitting there during the meeting with the new toy. One would think that Jim had never owned or won a radio before. Oh well, maybe next time it'll be one of us. I plan to include a radio again in the next few months. When? I don't know. But, if you make the meetings, you will find out and maybe even become a radio winner. I also decided that we haven't the need for a two part ticket. I talked over the idea to the board, and from now on we will buy tickets and write names or callsigns on the back of them. When you win from now on, your name or calls will be called instead of a number. Its a little better than becoming a number, don't ya think? It also saves the club a little money on the tickets by buying a single ticket roll instead of a double.

You may notice another change in the newsletter. We are now going to printup enough newsletters to mail to members, a large number of people pick up the newsletter that are not members. The tab for that has been running the club about $80 each month for the "freebies". With the approval of the board, the cost of each newsletter will be fifty cents per month a subscriptions cost of four dollars per year. That will enable those who do not wish to join the club to still receive the newsletter. The yearly cost is less than buying each month in hopes that the people wishing to have them will become subscribers. That way we will know how many to print each month. For the advertizers, we are going to print flyers for each month. The flyer will have another name but will have all the advertising on them. Each flyer will tell what is going with the club for that month and also let others know what is in the newsletter for that month. I think that if this newsletter can be made interesting enough, maybe we can get those non-members to become members. The four dollars a year will NOT cover the printing and mailing expenses entirely, but will cover enough that we can continue to publish for those who are interested but not enough to join us. So, when someone asks, that is the reason for the price on the front. Comments? Let me hear from you. Next month I will be gone much of the time. The time I will out of town coincides with the publication dates for the July newsletter. The choice is:

1. Someone else to do this and get July.
2. No one else to do this and NO July.
3. Someone else to help and we do this

BEFORE I leave and we have July early. I'd like to see someone volunteer to help so that when my schedule is in a conflict with publication dates, we still get the newsletter for that month. If there is no volunteer, I guess that you'll be getting July in August with August. 73 - Frank

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Oak Stockton - K0ROL

Hidden Words Puzzle -
Jerry - KBYUW (LEARA)

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100 REM ------------------------------------------
110 REM -      ACTIVE BANDPASS FILTER DESIGN      -
120 REM -          BY KEN WYATT - WA6TTY          -
130 REM -      GENERIC VERSION 1.1 (2-1-82)       -
140 REM -             REVISED 5-20-85             -
170 REM ------------------------------------------
180 REM - REFERENCE: SOLID STATE DESIGN FOR THE -
190 REM -      RADIO AMATEUR (1977) PG 81-82      -
194 REM ------------------------------------------
200 PRINT:PRINT:PRINT"  BANDPASS FILTER DESIGN - BY K WYATT"
210 GOSUB 900:PRINT:PRINT"THIS PROGRAM CALCULATES THE COMPONENT"
220 PRINT"VALUES FOR A SINGLE STAGE ACTIVE BP"
230 PRINT"FILTER, GIVEN THE GAIN = G,"
240 PRINT"THE CENTER FREQ = F,"
250 PRINT"AND BANDWIDTH (3DB) = BW":GOSUB 900
300 REM START OF DESIGN
310 INPUT"ENTER THE DESIRED VOLTAGE GAIN";G
320 INPUT"ENTER THE CENTER FREQ (HZ)";F
330 INPUT"THE DESIRED BANDWIDTH (HZ)";BW
340 Q=F/BW:W=6.2831853*F:GOSUB 900
370 PRINT"THE Q WILL BE"Q"FOR THIS CASE":GOSUB 900
390 PRINT"ENTER DESIRED VALUE FOR C (UF)"
395 INPUT"(.001 TO .01 UF TYPICAL FOR AUDIO)";C
400 C=C*1E-6:GOSUB 900:R1=Q/(G*W*C)
430 R1=INT(R1+.5)/1E3:PRINT"R1="R1"K"
440 R2=Q/((2*(Q↑2)-G)*W*C)
450 R2=INT(R2+.5)/1E3:PRINT"R2="R2"K"
460 R3=(2*Q)/(W*C)
470 R3=INT(R3+.5)/1E3:PRINT"R3="R3"K"
480 C=C/1E-6:PRINT"C ="C"UF":GOSUB 900
490 INPUT"DO YOU WISH A PICTURE (Y/N)";Q$
500 IF Q$="Y"THEN 600
510 INPUT"DO YOU WHICH TO REDESIGN (Y/N)";Q$
520 IFQ$="Y"THEN 200
530 END
600 REM DRAW PICTURE (FOR NON COMMODORE COMPUTERS,
605 REM                DELETE LINES 490,500, AND 600-740)
610 PRINT"          ____________________"
620 PRINT"          |      |           |"
630 PRINT"          C     R3           |"
640 PRINT"          |      |     |\    |"
650 PRINT" O--- R1 ---- C ----------|-\   |"
660 PRINT"          |              |  \  |"
670 PRINT"IN       R2              |   ----O"
680 PRINT"          |              |  /"
690 PRINT" O-------------------------|+/"
700 PRINT"                         | /"
710 PRINT"                         |"
720 PRINT"                         ----------O"
750 GOSUB 900:GOTO 510
900 REM DRAW A LINE
910 FORI=1TO39:PRINT"-";:NEXT:PRINT:RETURN
READY.
```

HELP WANTED

Your radio club needs your help, as our activities expand, there are more and more jobs that need doing. Hopefully, at least one of these jobs will be of interest to you. If so, please step up, since that certainly is going tobeat getting your arm twisted and doing something that is not of interest to you.

Field day is coming up on June 22 & 23. Please fill out the attached tear-off sheet and return it to Mike (K0TER) or to any other member of the board. We need these tear off sheets to help our FD Chairman plan another good FD for all of us. The information used to plan the set-up, including the number of stations and operator times. This last one, operator times, is very important, especially the late Saturday - early Sunday morning hours. Fill it out-ship it out, PLEASE.

Where should the club be heading? New projects, new speakers, new ideas, or what are you interested in? Let us know what you would like to see, and more importantly, how you can help us do it. The "us" is the Board, we want to be responsive to our Club, but we need your help. Contact any board member, or add your suggestions to the tear-off.

"UNUSUAL MOMENTS - REVISITED" by Oak Stockton - K0ROL

As a follow up to Frank Freiler's article in the May Zero Beat, I'd like to share an experience now, which really could not be shared earlier. For several years, my contribution to the yearly field day was picking up of the rental "Porta-Potty" on Fridays and transporting it with my four-wheeler and trailer to the field day site. There, the trailer was disconnected and placed in a strategic spot for use by PPRAA members and their families for the weekend. On Sunday afternoon I would then hitch up the new "cargo" and transport it down Ute Pass to my QTH, where (despite the neighbors) it was parked overnight to await its return to the rental agency on Monday. The field day mentioned by Frank in "Unusual Moments" had yielded an unusually large cargo in my trailer. I had just turned north from Midland Expressway onto 21st Street, when I heard the roar of the tornado! About ten seconds later, it touched down and ripped into the 7-11 store at that intersection! I was scared that it might pick up my "cargo" and then deposit it indiscriminately all over the countryside! I felt relieved to reach the QTH without mishap. We now rent our FD

-- continued on page 7 --

FIELD DAY 1985.....JUNE 22 AND 23.....RAMPART RANGE

Operations start at 8:00 AM Saturday and end at 5:00 PM Sunday. Plan on it!

I plan to attend FD ____ Saturday from _____ to _____

____ Sunday from _____ to _____

I prefer _____ operating, _____ logging, _____ just helping

I would like to operate/log, and prefer _____ band, _____mode.

Sign me up for Saturday from _____ to _____

Sunday from _____ to _____

If needed, I can ___, cannot ___, make the Sat night-Sun morn "Graveyard" stint.

I will arrive on Friday evening ___ with tent ___, trailer ___, camper ___.

SUGGESTIONS:_____

_____

_____

NAME:_____ CALL:_____ ADDR:_____ PHONE:_____

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Icom 730 $599
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Yaesu FT 757GX $695.
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Same as above w/ voice synthesiser $560.
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Icom BC 30 desk charger $45.
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Address _____

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Call _____ License Class _____

Are You An ARRL Member? ☐ Yes ☐ No Telephone _____

Full Member $12.00 ☐

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